

**In the Claims:**

1. (Previously presented) A method of placing a transponder or an integrated circuit contained in the transponder in an inventory in a communication station, the method comprising:

activating an inventory-making process in the transponder or in its integrated circuit;

generating a hash value in the transponder or its integrated circuit, the hash value identifying a part of a distinguishing dataset that is stored in the transponder or its integrated circuit, the distinguishing dataset being characteristic for the transponder or its integrated circuit;

using the hash value, accessing the part of the distinguishing dataset;

selecting a transmission parameter from a set of transmission parameters by using the accessed part from the distinguishing dataset; and

using the selected transmission parameter, transmitting an identifying dataset for the transponder or its integrated circuit to the communication station to place the transponder or its integrated circuit in the inventory in the communication station, the identifying dataset being characteristic for the transponder or its integrated circuit and intended for the placing of the transponder or its integrated circuit in an inventory.

2. (Previously presented) A method as claimed in claim 1, characterized in that, in the inventory-making process, a time slot is selected from a time-slot sequence by using the accessed part of the distinguishing dataset, and in that, in the inventory-making process, the identifying dataset for the transponder or its integrated circuit is transmitted from the transponder or its integrated circuit to the communication station by using the selected time slot.

3. (Previously presented) A method as claimed in claim 1, characterized in that the hash value is generated by means of a hash-value counting stage provided in the transponder or in its integrated circuit.

4. (Previously presented) A method as claimed in claim 3, characterized in that the hash-value counting stage is set to a preset starting hash value after a power-on reset in the transponder or in its integrated circuit.
5. (Previously presented) A method as claimed in claim 1, characterized in that the hash value is generated by means of a random number generator provided in the transponder or in its integrated circuit.
6. (Previously presented) An integrated circuit for a transponder, the integrated circuit comprising:
  - process-controlling circuitry configured to control an inventory-making process for placing the integrated circuit or the transponder containing the integrated circuit in an inventory in a communication station;
  - a memory circuit configured to store a distinguishing dataset of the integrated circuit or the transponder, the distinguishing dataset being characteristic for the integrated circuit or the transponder, and to store an identifying dataset of the integrated circuit or the transponder, the identifying dataset being characteristic for the integrated circuit or the transponder and intended for placing the integrated circuit or the transponder containing the integrated circuit in an inventory;
  - a hash-value generating circuit configured to generate a hash value that identifies a part of the distinguishing dataset stored in the memory circuit;
  - transmission-parameter selecting means for receiving the part of the distinguishing dataset that is read from the memory circuit using the hash value and for calculating a transmission parameter from a set of transmission parameters using the part of the distinguishing dataset; and
  - transmission circuitry configured to use the selected transmission parameter to transmit the identifying dataset from the integrated circuit to the communication station to place the integrated circuit or the transponder containing the integrated circuit in the inventory in the communication station.

7. (Previously presented) A circuit as claimed in claim 6, characterized in that the transmission-parameter selecting means includes a time-slot selecting stage that is configured to select a time slot from a time-slot sequence, and the transmission circuitry configured to transmit the identifying dataset during the selected time slot from the integrated circuit to the communication station for the placing of the integrated circuit or the transponder containing the integrated circuit in an inventory.
8. (Previously presented) A circuit as claimed in claim 6, characterized in that the hash-value generating circuit includes a hash-value counting stage.
9. (Previously presented) A circuit as claimed in claim 8, further comprising a power-on-rest circuit configured to generate a power-on-reset signal at a power-on reset of the integrated circuit and to provide the power-on-rest signal to the hash-value counting stage to set the hash-value counting stage to a starting hash value.
10. (Previously presented) A circuit as claimed in claim 9, further comprising a random number generator configured to generate the starting hash value.
11. (Previously presented) A transponder comprising:
  - an integrated circuit as claimed in claim 6; and
  - a transmission coil connected to the integrated circuit.